

Gianni Francesco Guidetti- Publications

1. Faris P, Ferulli F, Vismara M, Tanzi M, Negri S, Rumolo A, Lefkimmatis K, Maestri M, Shekha M, Pedrazzoli P, Guidetti GF, Montagna D, Moccia F. Hydrogen Sulfide-Evoked Intracellular Ca²⁺ Signals in Primary Cultures of Metastatic Colorectal Cancer Cells. *Cancers (Basel)*. 2020 Nov 11;12(11):E3338.
2. Vismara M, Zarà M, Negri S, Canino J, Canobbio I, Barbieri SS, Moccia F, Torti M, Guidetti GF. Platelet-derived extracellular vesicles regulate cell cycle progression and cell migration in breast cancer cells. *Biochim Biophys Acta Mol Cell Res*. 2020;1868(1):118886.
3. Visconte C, Canino J, Vismara M, Guidetti GF, Raimondi S, Pula G, Torti M, Canobbio I. Fibrillar amyloid peptides promote platelet aggregation through the coordinated action of ITAM- and ROS-dependent pathways. *J Thromb Haemost*. 2020 Aug 12.
4. Canino J, Guidetti GF, Galgano L, Vismara M, Minetti G, Torti M, Canobbio I. The proline-rich tyrosine kinase Pyk2 modulates integrin-mediated neutrophil adhesion and reactive oxygen species generation. *Biochim Biophys Acta Mol Cell Res*. 2020;1867(10):118799.
5. Torti M, Manganaro D, Visconte C, Zarà M, Canino J, Vismara M, Canobbio I, Guidetti GF. Stimulation of mTORC2 by integrin α IIb β 3 is required for PI3K β -dependent activation of Akt but is dispensable for platelet spreading on fibrinogen. *Platelets*. 2020;31(4):521-529.
6. Zarà M, Guidetti GF, Camera M, Canobbio I, Amadio P, Torti M, Tremoli E, Barbieri SS. Biology and Role of Extracellular Vesicles (EVs) in the Pathogenesis of Thrombosis. *Int J Mol Sci*. 2019 11;20(11):2840.
7. Guidetti GF, Torti M, Canobbio I. Focal Adhesion Kinases in Platelet Function and Thrombosis. *Arterioscler Thromb Vasc Biol*. 2019;39(5):857-868.
8. Visconte C, Canino J, Guidetti GF, Zarà M, Seppi C, Abubaker AA, Pula G, Torti M, Canobbio I. Amyloid precursor protein is required for in vitro platelet adhesion to amyloid peptides and potentiation of thrombus formation. *Cell Signal*. 2018;52:95-102.
9. Zarà M, Canobbio I, Visconte C, Canino J, Torti M, Guidetti GF. Molecular mechanisms of platelet activation and aggregation induced by breast cancer cells. *Cell Signal*. 2018;48:45-53.
10. Canobbio I, Guidetti GF, Torti M. Platelets in Neurological Disorders. (DOI:10.1007/978-3-319-47462-5_35. pp.513-530). In *Platelets in thrombotic and non-thrombotic disorders*. Editors Gresele, Kleiman, Lopez, Page. 2017
11. M. Zarà, G.F. Guidetti, D. Boselli, C. Villa, I. Canobbio, C. Seppi, C. Visconte, J. Canino, M. Torti, Release of prometastatic platelet-derived microparticles induced by breast cancer cells: a novel positive feedback mechanism for metastasis, *TH Open* 1 (2) (2017) e155–e163.
12. Canobbio I, Visconte C, Momi S, Guidetti GF, Zarà M, Canino J, Falcinelli E, Gresele P, Torti M. Platelet amyloid precursor protein is a modulator of venous thromboembolism in mice. *Blood*. 2017;130(4):527-536.
13. Guidetti GF, Zarà M, Canobbio I, Visconte C, Di Nunzio G, Torti M. Novel pharmacological inhibitors demonstrate the role of the tyrosine kinase Pyk2 in adhesion and aggregation of human platelets. *Thromb Haemost*. 2016;116:904-917.
14. Canobbio I, Visconte C, Oliviero B, Guidetti G, Zarà M, Pula G, Torti M. Increased platelet adhesion and thrombus formation in a mouse model of Alzheimer's disease. *Cell Signal*. 2016;28:1863-1871.
15. Achilli C, Grandi S, Guidetti GF, Ciana A, Tomasi C, Capsoni D, Minetti G. Fe₃O₄@SiO₂ core-shell nanoparticles for biomedical purposes: adverse effects on blood cells. *Biomater Sci*. 2016;4:1417-21.

16. Guidetti GF, Canobbio I, Torti M. PI3K/Akt in platelet integrin signaling and implications in thrombosis. *Adv Biol Regul.* 2015.pii: S2212-4926(15)30005-1.
17. Canobbio I, Cipolla L, Guidetti GF, Manganaro D, Visconte C, Kim S, Okigaki M, Falasca M, Kunapuli SP, Torti M. The focal adhesion kinase Pyk2 links Ca²⁺ signalling to Src family kinase activation and protein tyrosine phosphorylation in thrombin-stimulated platelets. *Biochem J.* 2015;469:199-210.
18. Manganaro D, Consonni A, Guidetti GF, Canobbio I, Visconte C, Kim S, Okigaki M, Falasca M, Hirsch E, Kunapuli SP, Torti M. Activation of phosphatidylinositol 3-kinase β by the platelet collagen receptors integrin $\alpha 2\beta 1$ and GPVI: The role of Pyk2 and c-Cbl. *Biochim Biophys Acta.* 2015;1853:1879-88.
19. Canobbio I, Guidetti GF, Oliviero B, Manganaro D, Vara D, Torti M, Pula G. Amyloid β -peptide-dependent activation of human platelets: essential role for Ca²⁺ and ADP in aggregation and thrombus formation. *Biochem J.* 2014;462:513-23.
20. Achilli C, Jadhav SA, Guidetti GF, Ciana A, Abbonante V, Malara A, Fagnoni M, Torti M, Balduini A, Balduini C, Minetti G. Folic Acid-Conjugated 4-Amino-Phenylboronate, a Boron-Containing Compound Designed for Boron Neutron Capture Therapy, is an Unexpected Agonist for Human Neutrophils and Platelets. *Chem Biol Drug Des.* 2014;83:532-40.
21. Guidetti GF, Torti M Pull-down assay for analysis of integrin-mediated activation of Rap proteins in adherent platelets. *Methods Mol Biol.* 2014;1120:167-76.
22. Achilli C, Grandi S, Ciana A, Guidetti GF, Malara A, Abbonante V, Cansolino L, Tomasi C, Balduini A, Fagnoni M, Merli D, Mustarelli P, Canobbio I, Balduini C, Minetti G. Biocompatibility of functionalized boron phosphate (BPO₄) nanoparticles for boron neutron capture therapy (BNCT) application. *Nanomedicine.* 2014;10:589-97.
23. Canobbio I, Catricalà S, Di Pasqua LG, Guidetti G, Consonni A, Manganaro D, Torti M Immobilized amyloid A β peptides support platelet adhesion and activation. *FEBS Lett.* 2013;587:2606-11.
24. Kim S, Cipolla L, Guidetti G, Okigaki M, Jin J, Torti M, Kunapuli SP Distinct role of Pyk2 in mediating thromboxane generation downstream of both G_{12/13} and integrin $\alpha IIb\beta 3$ in platelets. *J Biol Chem.* 2013;288:18194-203.
25. Guidetti GF, Manganaro D, Consonni A, Canobbio I, Balduini C, Torti M Phosphorylation of the guanine-nucleotide-exchange factor CalDAG-GEFI by protein kinase A regulates Ca(2+)-dependent activation of platelet Rap1b GTPase. *Biochem J.* 2013;453:115-23.
26. Cipolla L, Consonni A, Guidetti G, Canobbio I, Okigaki M, Falasca M, Ciralo E, Hirsch E, Balduini C, Torti M The proline-rich tyrosine kinase Pyk2 regulates platelet integrin $\alpha IIb\beta 3$ outside-in signaling. *J Thromb Haemost.* 2013;11:345-56.
27. Canobbio I, Cipolla L, Consonni A, Momi S, Guidetti G, Oliviero B, Falasca M, Okigaki M, Balduini C, Gresele P, Torti M Impaired thrombin-induced platelet activation and thrombus formation in mice lacking the Ca(2+)-dependent tyrosine kinase Pyk2. *Blood.* 2013;121:648-57.
28. Grandi S, Spinella A, Tomasi C, Bruni G, Fagnoni M, Merli D, Mustarelli P, Guidetti GF, Achilli C, Balduini C. Synthesis and characterisation of functionalized borosilicate nanoparticles for boron neutron capture therapy applications. *J SOL-GEL SCI TECHN* 2012; 64: 358-366
29. Guidetti GF, Torti M. The Small GTPase Rap1b: A Bidirectional Regulator of Platelet Adhesion Receptors. *J Signal Transduct.* 2012;2012:412089.

30. Guidetti GF, Consonni A, Cipolla L, Mustarelli P, Balduini C, Torti M. Nanoparticles induce platelet activation in vitro through stimulation of canonical signalling pathways. *Nanomedicine*. 2012;8:1329-36.
31. Consonni A, Cipolla L, Guidetti G, Canobbio I, Ciruolo E, Hirsch E, Falasca M, Okigaki M, Balduini C, Torti M. Role and regulation of phosphatidylinositol 3-kinase β in platelet integrin $\alpha_2\beta_1$ signaling. *Blood*. 2012;119:847-56.
32. Lova P, Guidetti GF, Canobbio I, Catricalà S, Balduini C, Torti M. Epinephrine-mediated protein kinase C and Rap1b activation requires the co-stimulation of Gz-, Gq-, and Gi-coupled receptors. *Thromb Haemost*. 2011;105:479-86.
33. Catricalà S, Guidetti GF, Canobbio I, Pecci A, Balduini CL, Balduini C, Torti M. The irreversibility of platelet aggregation is regulated by myosin IIA, but is not compromised in MYH9-related disease. *Thromb Res*. 2011;127:171-3
34. Lova P, Canobbio I, Guidetti GF, Balduini C, Torti M. Thrombin induces platelet activation in the absence of functional protease activated receptors 1 and 4 and glycoprotein Ib-IX-V. *Cellular Signaling* 2010;22:1681-7.
35. Guidetti GF, Bernardi B, Consonni A, Rizzo P, Gruppi C, Balduini C, Torti M. Integrin $\alpha_2\beta_1$ -induced tyrosine phosphorylation-independent activation of phospholipase C γ_2 in adherent platelets: a role for Rac GTPases. *J Thromb Haemost*. 2009;7:1200-6.
36. Guidetti GF, Lova P, Bernardi B, Campus F, Baldanzi G, Graziani A, Balduini C, Torti M. The Gi-coupled P2Y₁₂ receptor regulates diacylglycerol-mediated signaling in human platelets. *Journal of Biological Chemistry* 2008,283:28795-28805.
37. Canobbio I, Trionfini P, Guidetti GF, Balduini C, Torti M. Targeting of the small GTPase Rap2b, but not Rap1b, to lipid rafts is promoted by palmitoylation at Cys176 and Cys177 and is required for efficient protein activation in human platelets. *Cellular Signaling* 2008, 20:1662-1670.
38. Guidetti GF, Bernardi B, Campus F, Crittenden JR, Graybiel AM, Balduini C, Torti M. The small GTPase Rap1b regulates the cross-talk between platelet integrin $\alpha_2\beta_1$ and integrin $\alpha_{IIb}\beta_3$. *Blood* 2006, 107: 2728-2735.
39. Noris P, Guidetti GF, Conti V, Ceresa IF, Di Pumpo M, Pecci A, Torti M, Savoia A, Balduini CL. Autosomal dominant thrombocytopenias with reduced expression of glycoprotein Ia. *Thrombosis and Haemostasis* 2006, 95:483-489.
40. Paganini S, Guidetti GF, Catricala S, Trionfini P, Panelli S, Balduini C, Torti M. Identification and biochemical characterization of Rap2C, a new member of the Rap family of small GTP-binding proteins. *Biochimie* 2006, 88:285-295.
41. Viola M, Karousou EG, Vigetti D, Genasetti A, Pallotti F, Guidetti GF, Tira E, De Luca G, Passi A. Decorin from different bovine tissues: Study of glycosaminoglycan chain by PAGEFS. *Journal of Pharmaceutical and Biomedical Analysis* 2006, 41:36-42.
42. Canobbio I, Stefanini L, Guidetti GF, Balduini C, Torti M. A new role for Fc γ RIIA in the potentiation of human platelet activation induced by weak stimulation. *Cellular Signaling* 2006, 18: 861-870.
43. Guidetti GF, Bartolini B, Bernardi B, Tira ME, Berndt MC, Balduini C, Torti M. Binding of von willebrand factor to the small proteoglycan decorin. *FEBS Letters* 2004, 574: 95-100.

44. Guidetti GF, Greco F, Bertoni A, Giudici C, Viola M, Tenni R, Tira EM, Balduini C and Torti M. Platelet interaction with CNBr peptides from type II collagen via integrin alpha2beta1. *BBA molecular cell research* 2003, 1640: 43-51.
45. Guidetti GF, Bertoni A, Viola M, Tira E, Balduini C, Torti M. The small proteoglycan decorin supports adhesion and activation of human platelets. *Blood* 2002, 100: 1707-1714.